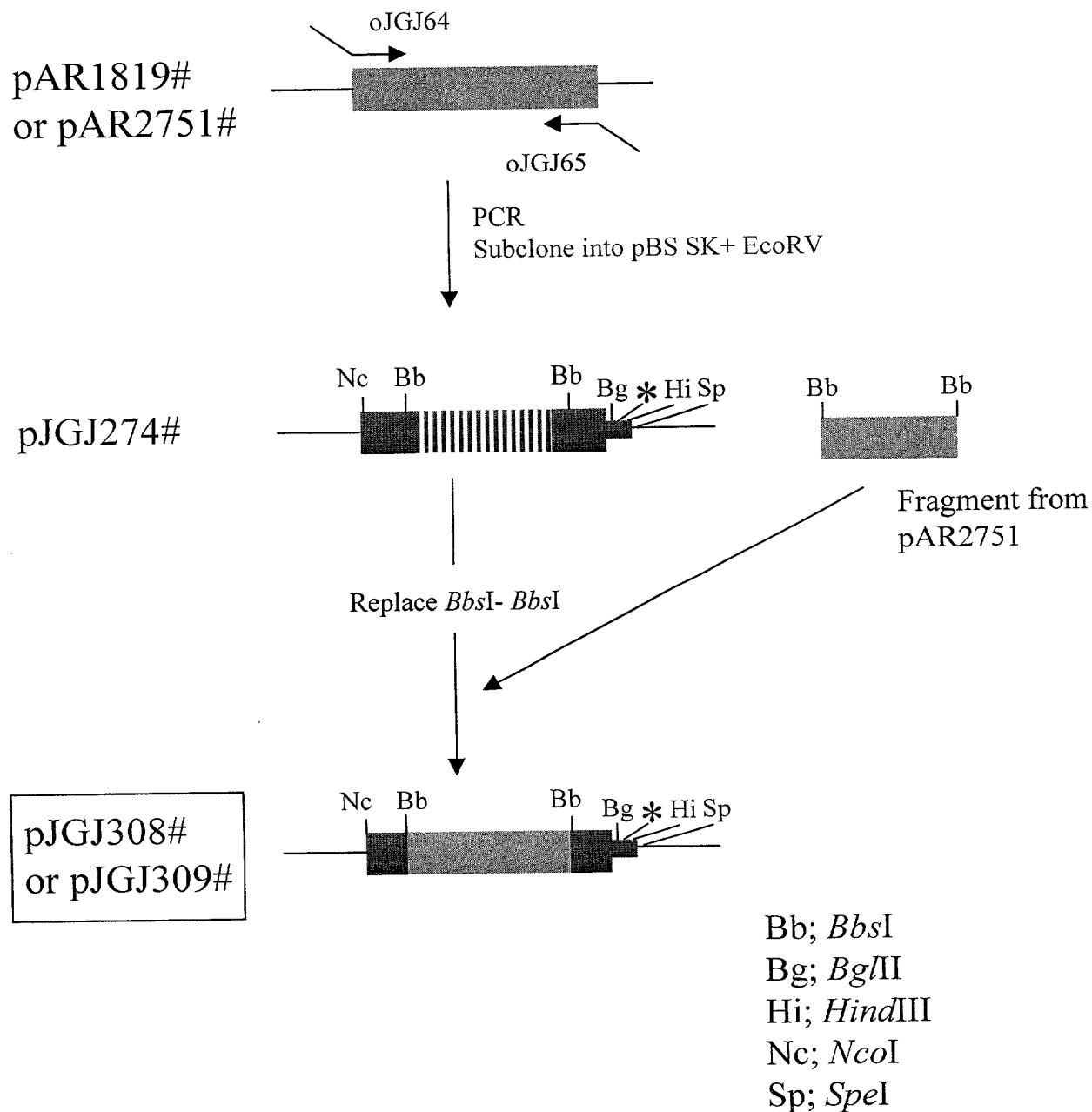


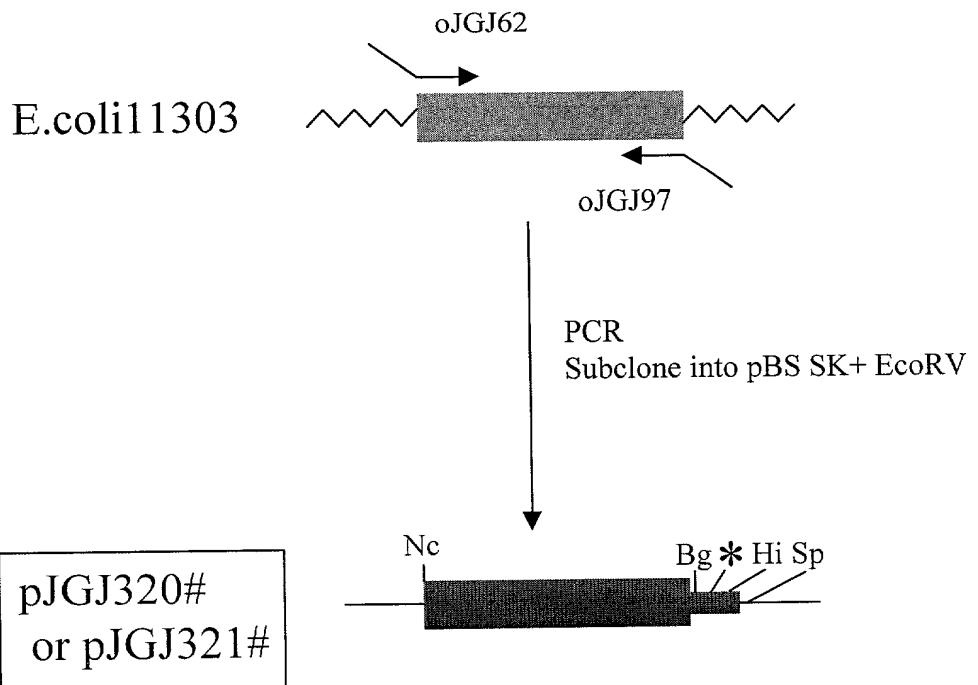
# Figure 1

## T7 DNA polymerase (Gene5)



**Figure 2**

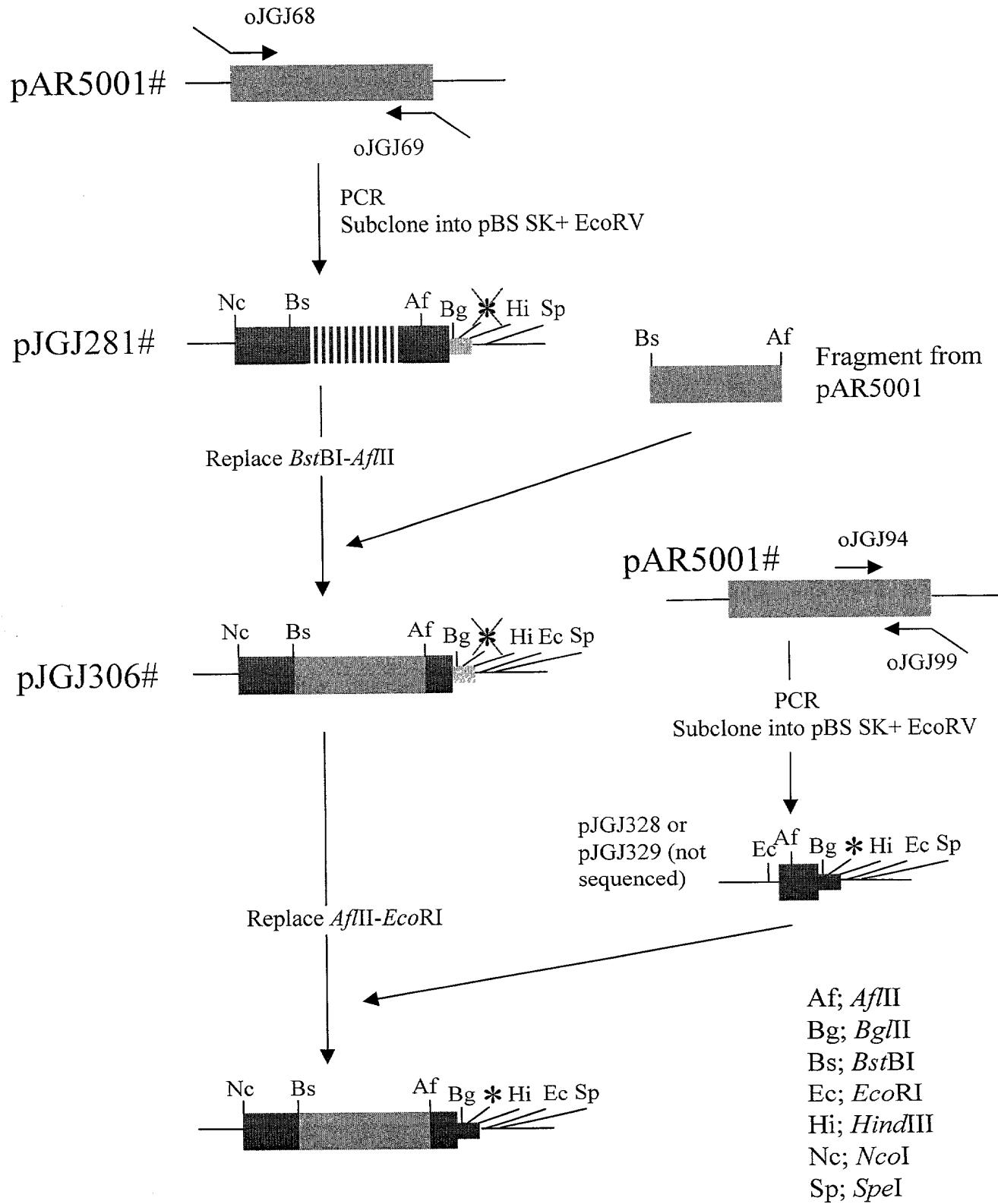
# TrxA gene



Bg; *Bgl*II  
Hi; *Hind*III  
Nc; *Nco*I  
Sp; *Spe*I

**Figure 3**

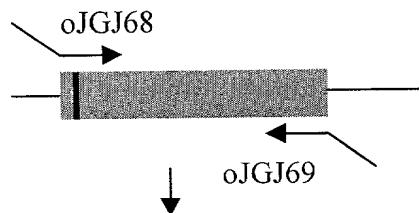
T7 gene 4A' primase/helicase



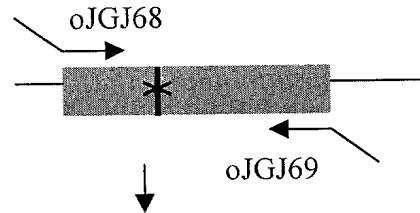
# Figure 4

## T7 RNA polymerase genes

pAR3283# (w/nuc loc)



pX19# (A465Tmutation)



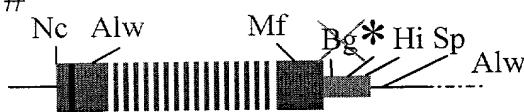
PCR

Subclone into pBS SK+ EcoRV

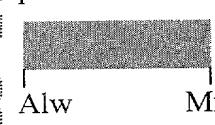
PCR

Subclone into pBS SK+ EcoRV

pJGJ291#



Fragment from  
pAR3283



Replace *AlwNI-MfeI*

Fragment from  
pX19



Replace *AlwNI-MfeI*

Fragment from  
pAR3283



**pJGJ316#  
or pJGJ317#**

**pJGJ314#  
or pJGJ315#**

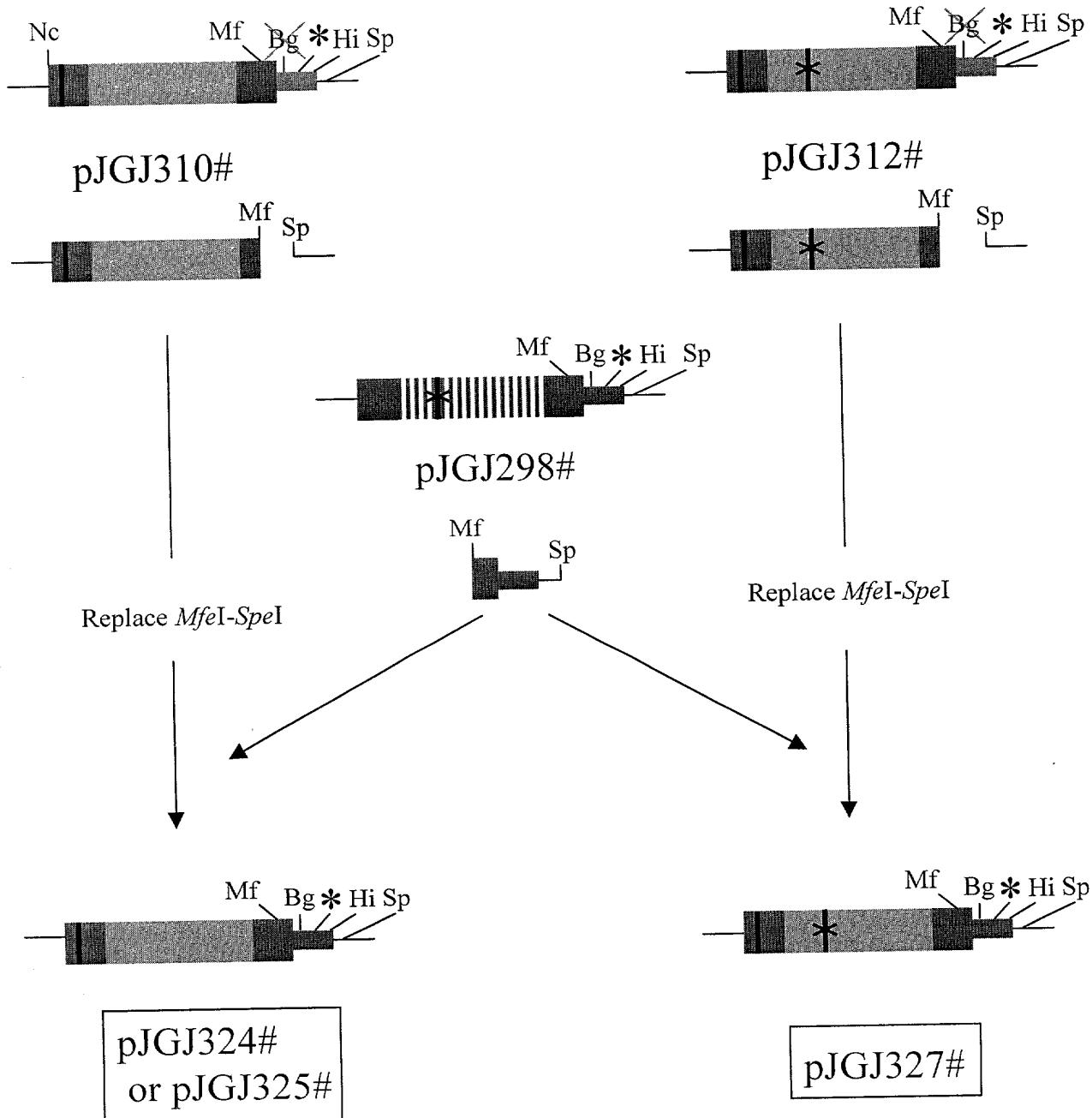


**pJGJ310#  
or pJGJ311#**

Alw; *AlwNI*    Bg; *BglII*  
Hi; *HindIII*    Nc; *NcoI*  
Mf; *MfeI*      Sp; *SpeI*

**Figure 5**

T7 RNA polymerase



Bg; *Bgl*III  
Hi; *Hind*III  
Mf; *Mfe*I  
Nc; *Nco*I  
Sp; *Spe*I

## Figure 6

### Generalized Subcloning into pCAMBIA vectors

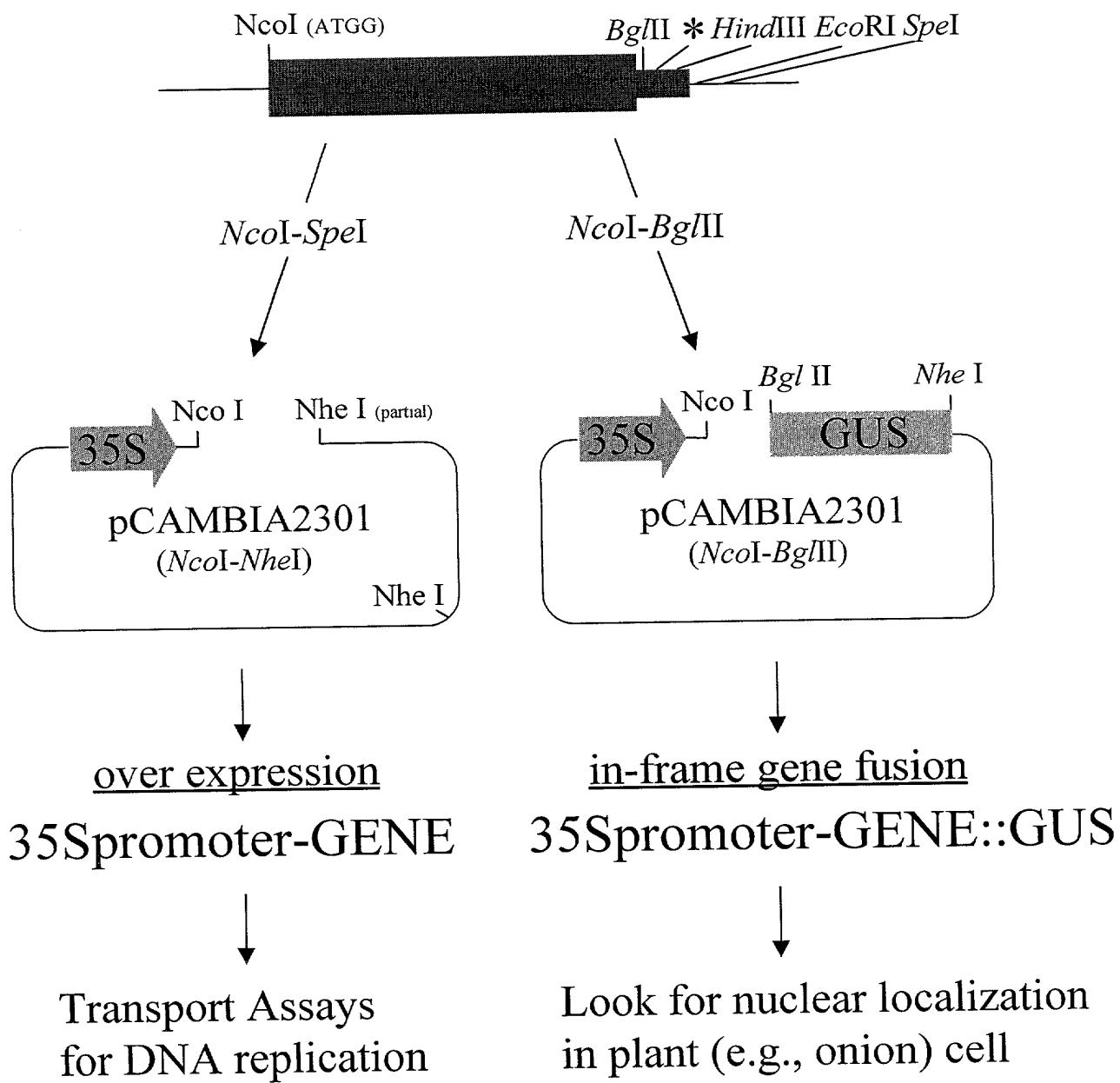


Figure 7 Rolling circle replication of artificial episomes

